תרגיל בית 2

234124 - מבוא לתכנות מערכות

שם: פרח קב

ת״ז: 213309388

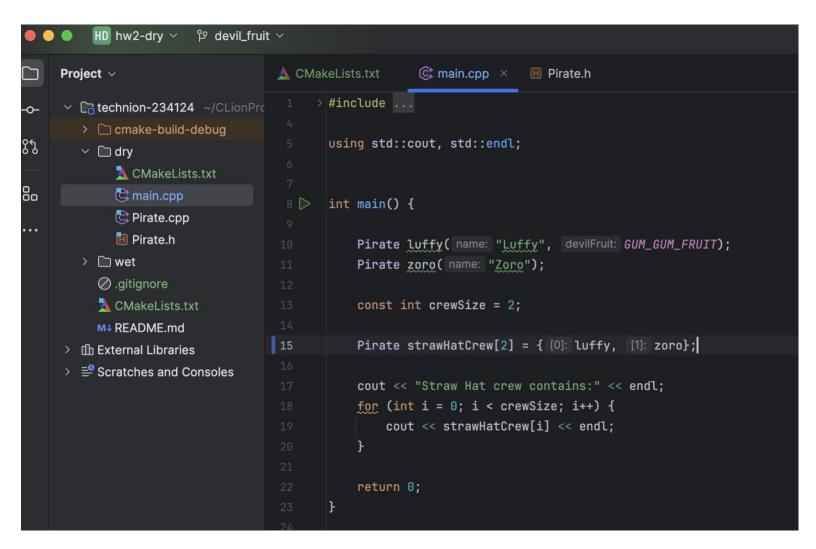
שם: גמאל אבו מוך

ת״ז: 213754088

תיקון שגיאת קומפילציה 3.2

: הקוד שהיה הוא כזה

The compiler creates a default constructor for classes that don't have a constructor, but the class pirate has a constructor that's why it didn't create a default for it, For us to solve this problem we could change in the document "pirate.h" by adding "pirate();", but since the change must be done in the document "main.cpp", we could replace the given code with this one, that leads to the same result:



וקונפליקטים Branches וקונפליקטים

Those are the changes that have been made with merge after conflicts This is extra to show the merge that we did, you could see it all in the log.txt

```
#include ...

using std::cout, std::endl;

int main() {

Pirate luffy( name: "Luffy", bounty: 10000000);

Pirate zoro( name: "Zoro", bounty: 5000000);

const int crewSize = 2;

Pirate strawHatCrew[2] = { [0]: luffy, [1]: zoro};

cout << "Straw Hat crew contains:" << endl;
for (int i = 0; i < crewSize; i++) {
    cout << strawHatCrew[i] << endl;
}

return 0;
}
</pre>
```

```
∨ ‡ 24 ■■■■ dry/Pirate.cpp 📮
      @ -2,14 +2,19 @
 2
      #include "Pirate.h"
                                                                       2
                                                                            #include "Pirate.h"
                                                                       3
 3
                                                                       4
 5 - Pirate::Pirate(const string& name, int bounty): name(name),
                                                                       5 + Pirate::Pirate(const string& name, int bounty, DEVIL_FRUIT
      bounty(bounty) {}
                                                                            devilFruit): name(name), bounty(bounty),
                                                                            devilFruit(devilFruit) {}
 6
                                                                       6
 7
                                                                       7
 8
      void Pirate::setName(const string& name){
                                                                       8
                                                                            void Pirate::setName(const string& name){
 9
         this->name = name;
                                                                       9
                                                                                this->name = name;
                                                                            }
10
                                                                      10
                                                                      11
11
12
                                                                      12
                                                                      13 + void Pirate::setDevilFruit(DEVIL_FRUIT devilFruit){
                                                                               this->devilFruit = devilFruit;
                                                                      15 + }
                                                                      16 +
                                                                      17 +
      std::string Pirate::getName(){
                                                                      18
                                                                            std::string Pirate::getName(){
13
         return name;
                                                                      19
                                                                                return name;
14
                                                                            }
15
                                                                      20
      @@ -23,8 +28,23 @@ int Pirate::getBounty() {
23
      }
                                                                      28
                                                                           }
24
                                                                      29
25
                                                                      30
                                                                      31 + DEVIL_FRUIT Pirate::getDevilFruit(){
                                                                      32 +
                                                                                return devilFruit;
                                                                      33 + }
                                                                      34 +
                                                                      35 +
                                                                      36 + const char* const devilFruitNames[] = {
                                                                      37 +
                                                                               "Gum Gum",
                                                                               "Smoke Smoke",
                                                                      38 +
                                                                      30 _ "Flame Flame"
```

```
26 + std::ostream &operator<<(std::ostream &os, const Pirate
                                                                                   std::ostream &operator<<(std::ostream &os, const Pirate</pre>
      &pirate){
                                                                                   &pirate){
                                                                                       os << pirate.name << " (Devil Fruit: " <<
          os << pirate.name;
                                                                            47 +
27
                                                                                   devilFruitNames[pirate.devilFruit] << ")";</pre>
          os << pirate.bounty;
                                                                                       os << pirate.bounty;
28
                                                                            48
29
          return os;
                                                                            49
                                                                                       return os;
30
      }
                                                                            50
```

```
∨ ‡ 15 ■■■■ dry/Pirate.h 📮
     00 -5,20 +5,33 00
5
                                                                     5
 6
     using std::string;
                                                                     6
                                                                          using std::string;
                                                                     7
                                                                     8
                                                                        + enum DEVIL_FRUIT {
                                                                     9
                                                                              GUM_GUM_FRUIT,
                                                                    10 +
                                                                              SMOKE_SMOKE_FRUIT,
                                                                    11 +
                                                                             FLAME_FLAME_FRUIT,
                                                                    12 +
                                                                              RUMBLE_RUMBLE_FRUIT,
                                                                    13 +
                                                                              STRING_STRING_FRUIT,
                                                                              ICE_ICE_FRUIT,
                                                                    14 +
                                                                              NONE
                                                                    16 + };
                                                                    17 +
     class Pirate {
                                                                          class Pirate {
9
     private:
                                                                    19
                                                                          private:
         string name;
10
                                                                    20
                                                                              string name;
11
         int bounty;
                                                                    21
                                                                              int bounty;
                                                                    22
12
                                                                              DEVIL_FRUIT devilFruit;
                                                                    23
13
                                                                    24
                                                                    25
14
     public:
                                                                          public:
                                                                              Pirate(const string& name, int bounty, DEVIL_FRUIT
15
         Pirate(const string& name, int bounty);
                                                                    26
                                                                          devilFruit = DEVIL_FRUIT::NONE );
                                                                    27
16
```

```
16
                                                                       27
17
          ~Pirate() = default;
                                                                       28
                                                                                ~Pirate() = default;
18
                                                                       29
          void setName(const string& name);
                                                                                void setName(const string& name);
                                                                                 void setDevilFruit(DEVIL_FRUIT devilFruit);
                                                                       31
20
                                                                       32
21 +
          string getName();
                                                                                string getName();
                                                                       33
                                                                                DEVIL_FRUIT getDevilFruit();
                                                                       34
22
                                                                       35
23
                                                                       36
24
          void setBounty(int bounty);
                                                                       37
                                                                                void setBounty(int bounty);
....
@@ -7,7 +7,7 @@ using std::cout, std::endl;
7
                                                                       7
     int main() {
                                                                             int main() {
8
                                                                       8
                                                                       9
9
          Pirate luffy("Luffy", 1000000);
                                                                                Pirate luffy("Luffy", 1000000, GUM_GUM_FRUIT);
10 -
                                                                       10 +
          Pirate zoro("Zoro", 500000);
                                                                                Pirate zoro("Zoro", 500000);
11
                                                                       11
12
                                                                       12
          const int crewSize = 2;
                                                                                const int crewSize = 2;
13
                                                                       13
+
```

And this is the execution on the shell

```
C:\Users\jamal\CLionProjects\technion-234124\cmake-build-debug\dry\dry.exe
Straw Hat crew contains:
Luffy (Devil Fruit: Gum Gum) 1000000
Zoro (Devil Fruit: None) 500000

Process finished with exit code 0
```